

Figure 1

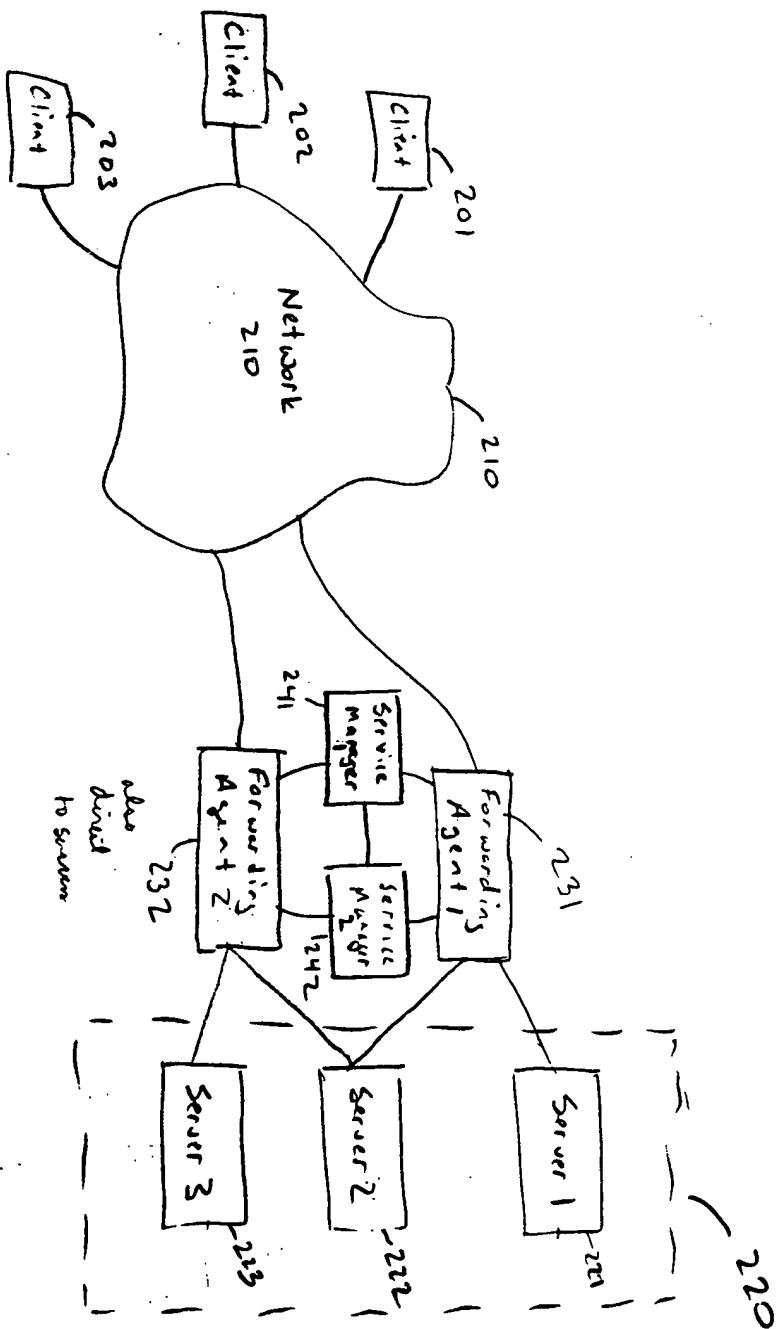
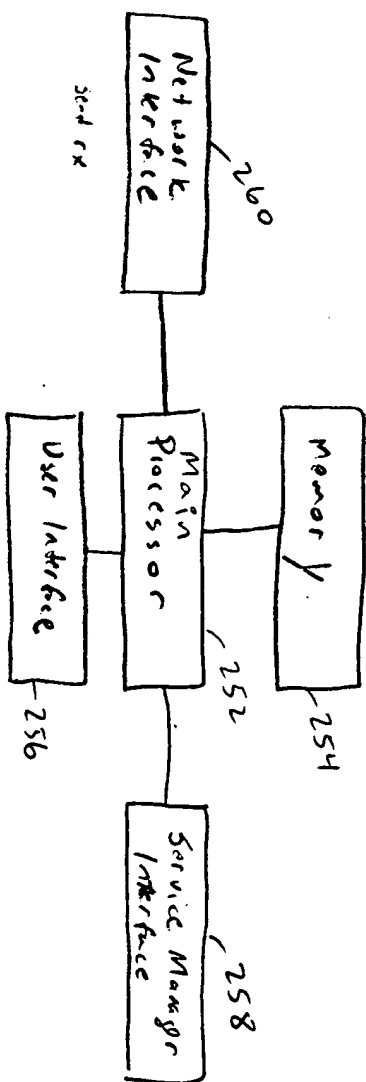


Figure 2A



250

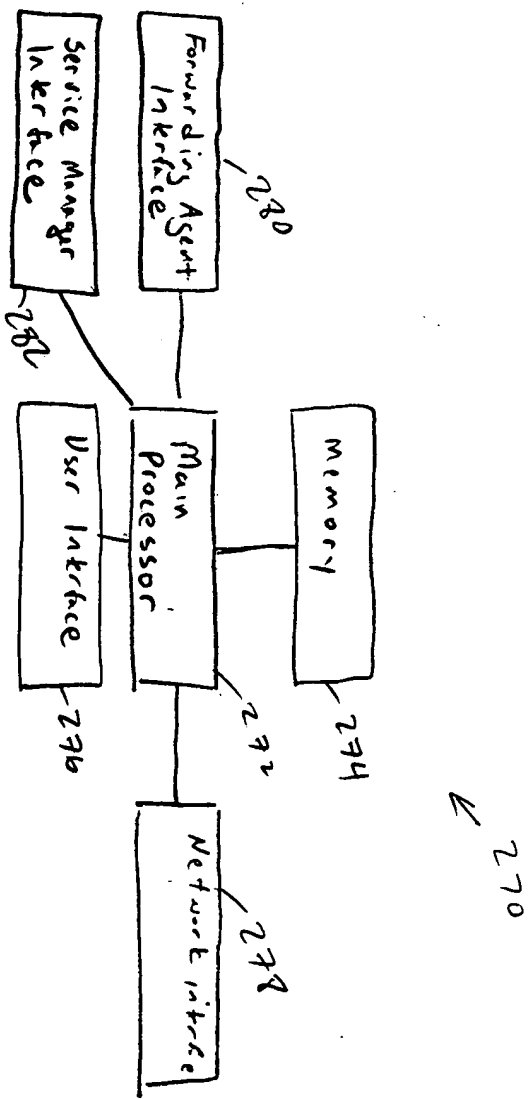


Figure 2C

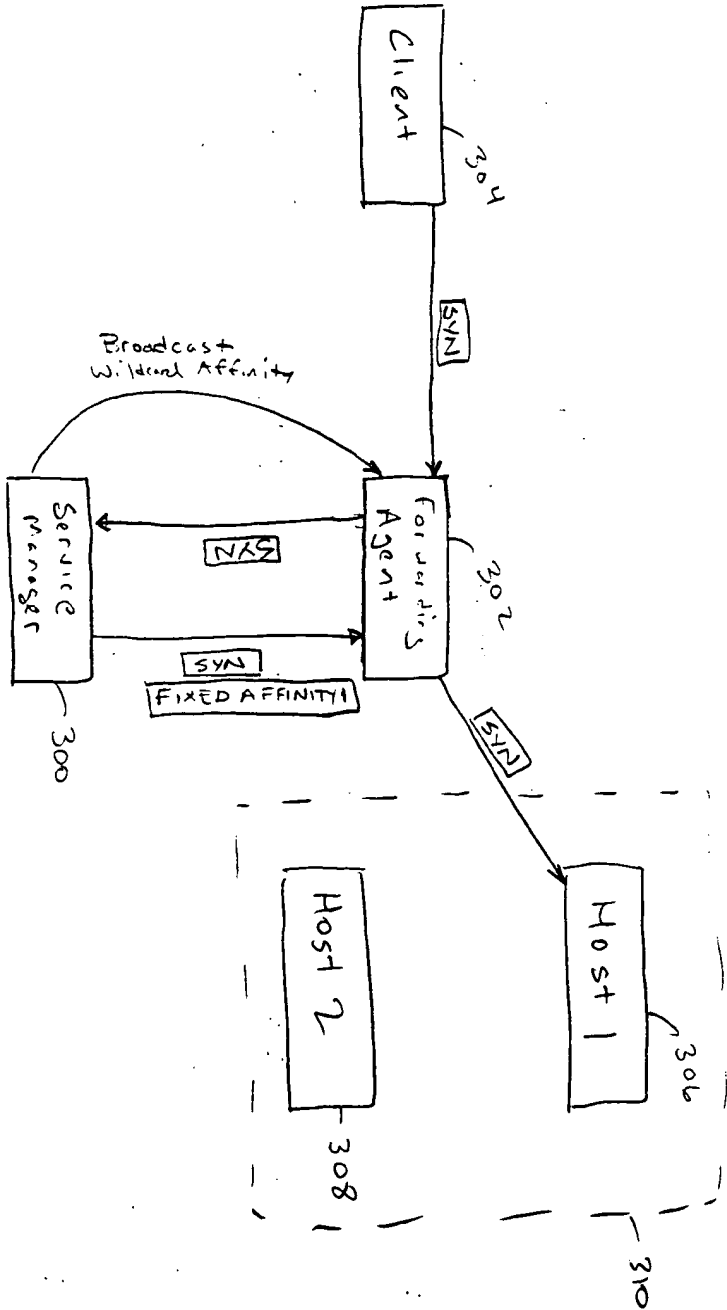


Figure 3A

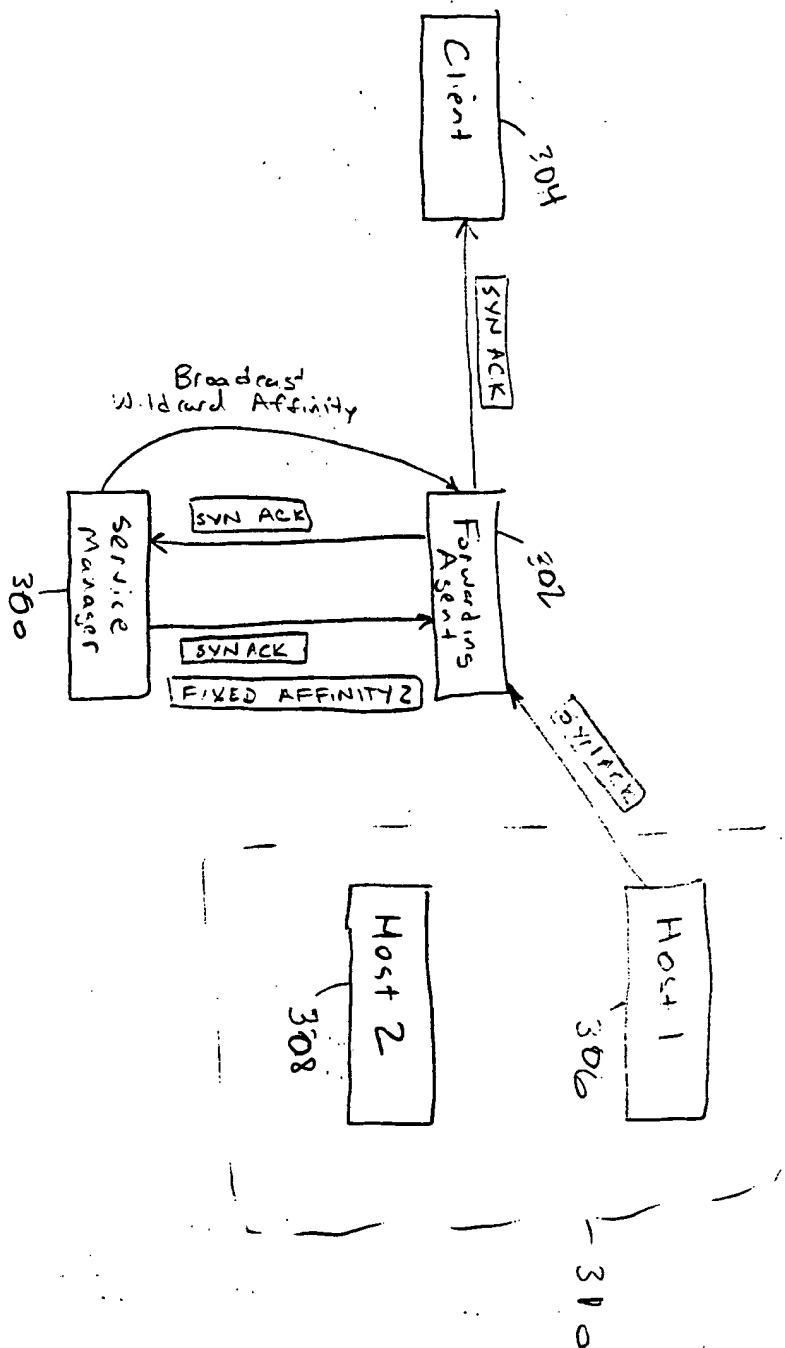


FIGURE 3B

FIGURE 3B is a block diagram of a network architecture. The architecture includes a Client 304, a Forwarding Agent 302, a Service Manager 360, and a set of Hosts 306, 308. The Client 304 is connected to the Forwarding Agent 302 via a SYNACK message. The Forwarding Agent 302 is connected to the Service Manager 360 via a SYNACK message. The Service Manager 360 is connected to the Forwarding Agent 302 via a Broadcast WILDCARD Affinity connection. The Forwarding Agent 302 is connected to Host 1 306 via a SYNACK message. Hosts 306 and 308 are grouped together within a dashed boundary 310. A label FIXED AFFINITY? is associated with the connection between the Forwarding Agent 302 and the Service Manager 360.

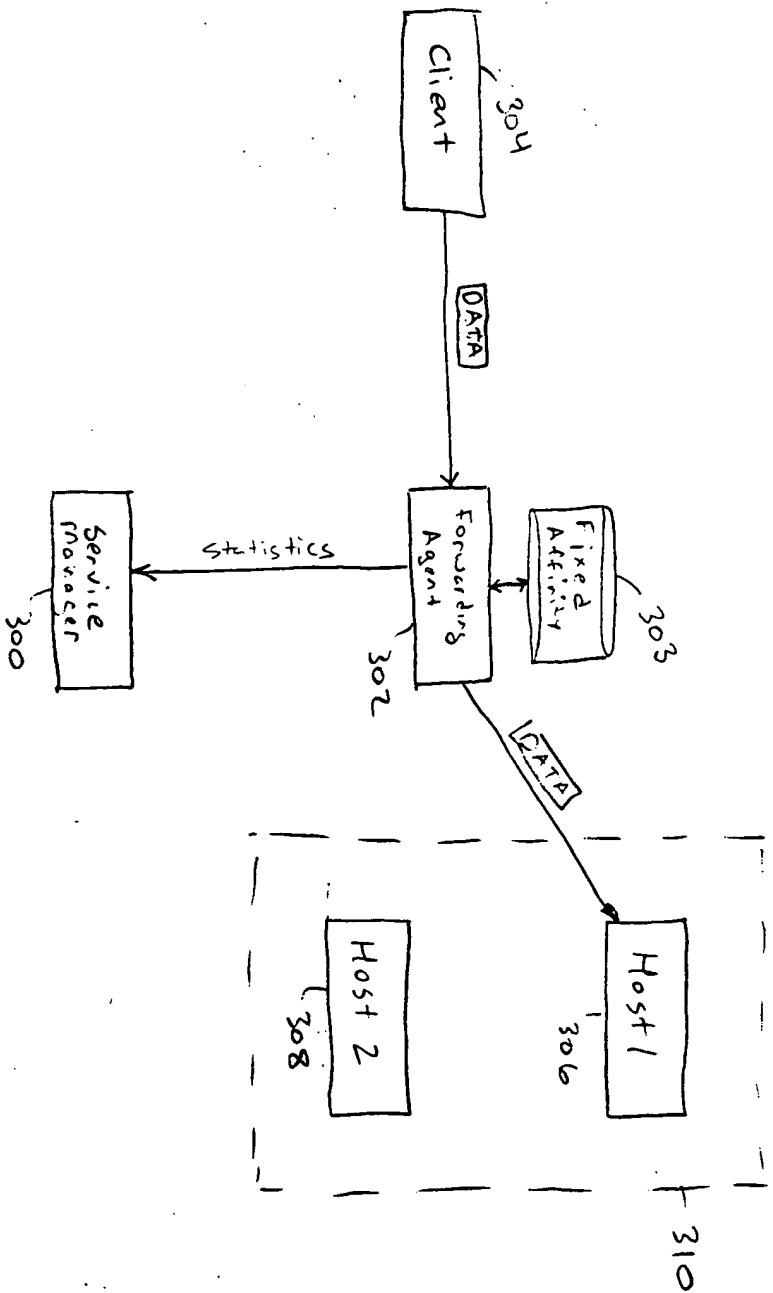


Figure 3c

FIG. 3c is a block diagram of a network architecture. A client 304 sends data to a forwarding agent 302. The forwarding agent 302 is connected to a fixed address 303 and sends data to host 1 306. Host 2 308 is also connected to the forwarding agent 302. The forwarding agent 302 sends statistics to a service monitor 300.

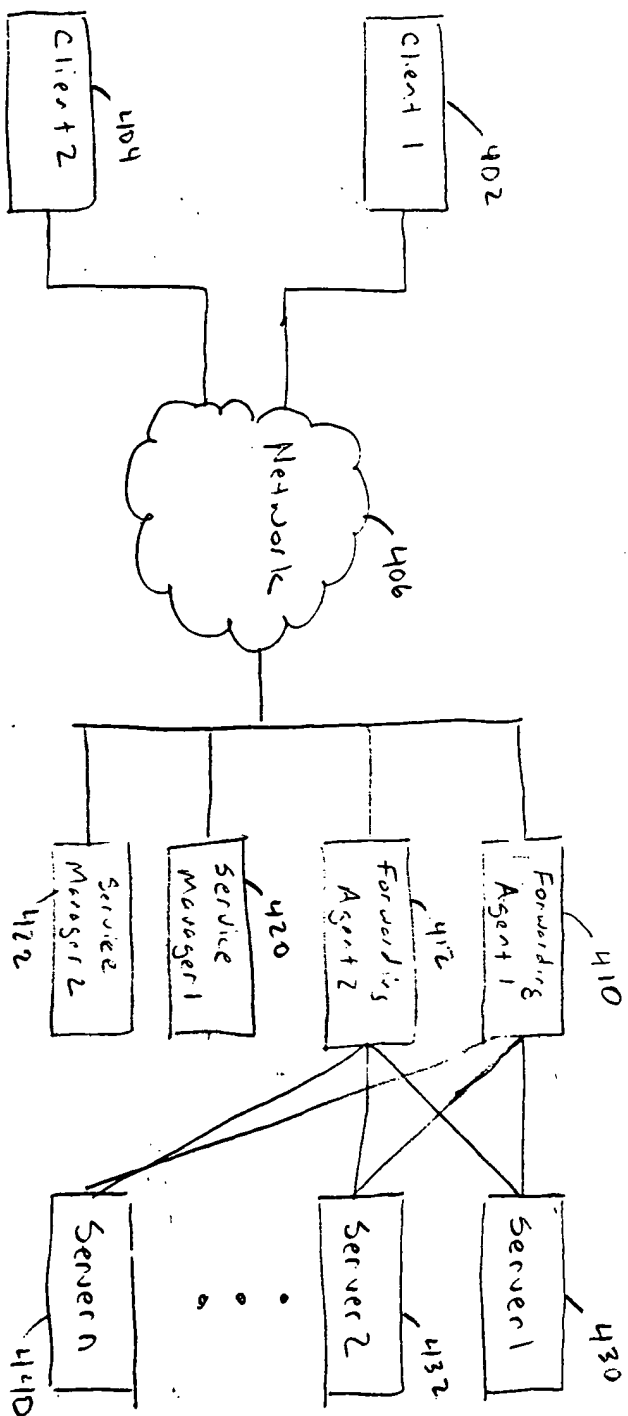


Figure 4



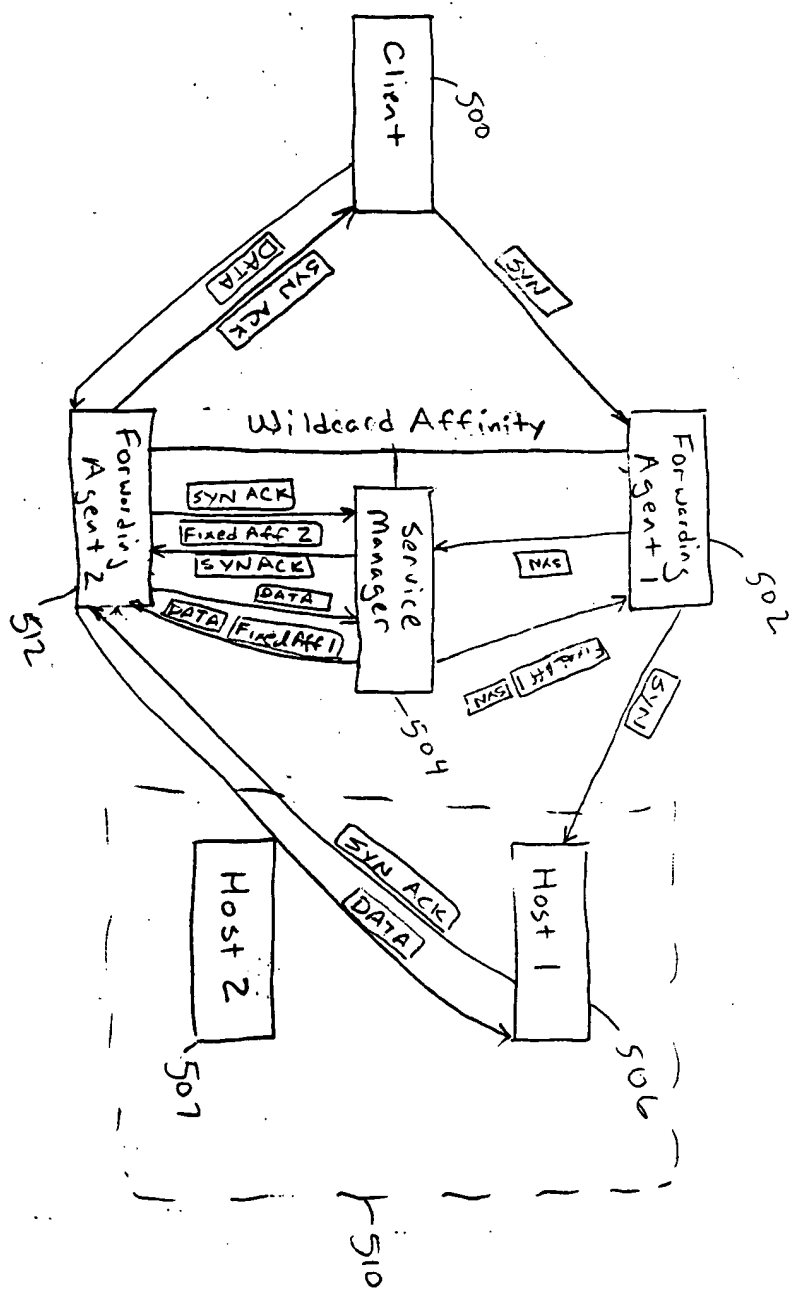


Figure 5

Affinity Key	602
Dispatch Flag	604
Information Flag	606
Forward IP address	608
Time to live	610

↙ 600

Figure 6

- 700

Dispatch Flag	702
Information Flag	704
Protocol	706
Source IP address	708
Source netmask	710
Destination IP address	712
Destination netmask	714
Source port	716
Destination port	718
Forward IP address	720
Time to live	722

Figure 7

800  
↙

Protocol version	802
Message type	804

Figure 8A

810  
↙

Required flag	812
Segment type	814
Segment length	816

Figure 8B

820  
↙

Security type	822
Security data	824

Figure 8C

Service message header	900
Security segment	903
Wild Card affinity	904
Action List	906
Affinity service precedence	908
Backup service precedence	909
Interest data	910
Service manager interest data	912
Action segments	914

← 900

Figure 9A

← 920

Service message header	922
Security segment	924
Fixed affinity	926
Affinity service precedence	928
Backup service precedence	929
Action segments	930
Identity information	932
Service manager interest data	934
Forwarding agent interest data	936
IP packet segment	938

Figure 9B

Service message header	941
Security segment	942
Action list segment	944
Affinity Segment (from original affinity)	946
Identity information (from original affinity)	948
Service manager interest data	950
Forwarding agent interest data	952

← 940

Figure 9C

← 960

Service message header	962
Security Segment	964
Affinity, Identifier	966
Identity information (from original affinity)	968
Service manager interest data	970
Forwarding agent interest data	972
IP packet segment	974

Figure 9D

Service message header	982
IP packet segment	984

← 980

Figure 9E

1000

Dispatch Flag	1002
Information Flag	1004
Affinity key	1006
Interest mask	1008

Figure 10 A

1010

Search order Flag	1012
Precedence value	1014

Figure 10 B

1020

Service Manager Interest Data	1021
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Figure 10 C

1022

Forwarding Agent Interest Data	1023
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Figure 10 D

1024

IP address of sender	1025
Character host name	1026

Figure 10 E

← 1030

Source IP address	1032
Destination IP address	1034
Source port	1036
Destination port	1038

Figure 10 F

← 1040

Sequence delta	1042
Initial sequence number	1044
Acknowledgment delta	1046
Initial Acknowledgment number	1048

Figure 10 G

← 1050

Advertiser address	1052
Subnet mask	1054

Figure 10 H

← 1060

Interest IP Address	1062
Interest Port	1064
Interest Mask	1066
Data Flag	1067
Copy Flag	1068
Hold Flag	1069

Figure 10 I



1070

Action Type 1	1072
Action Type 2	1074
Action Type n	1080

Figure 10J

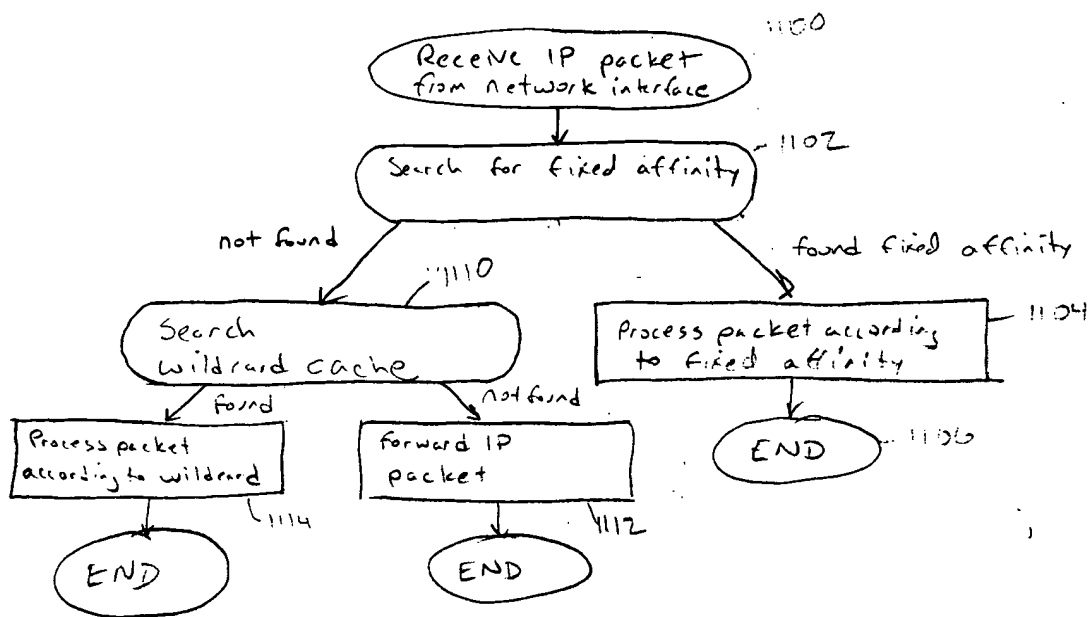


Figure 11

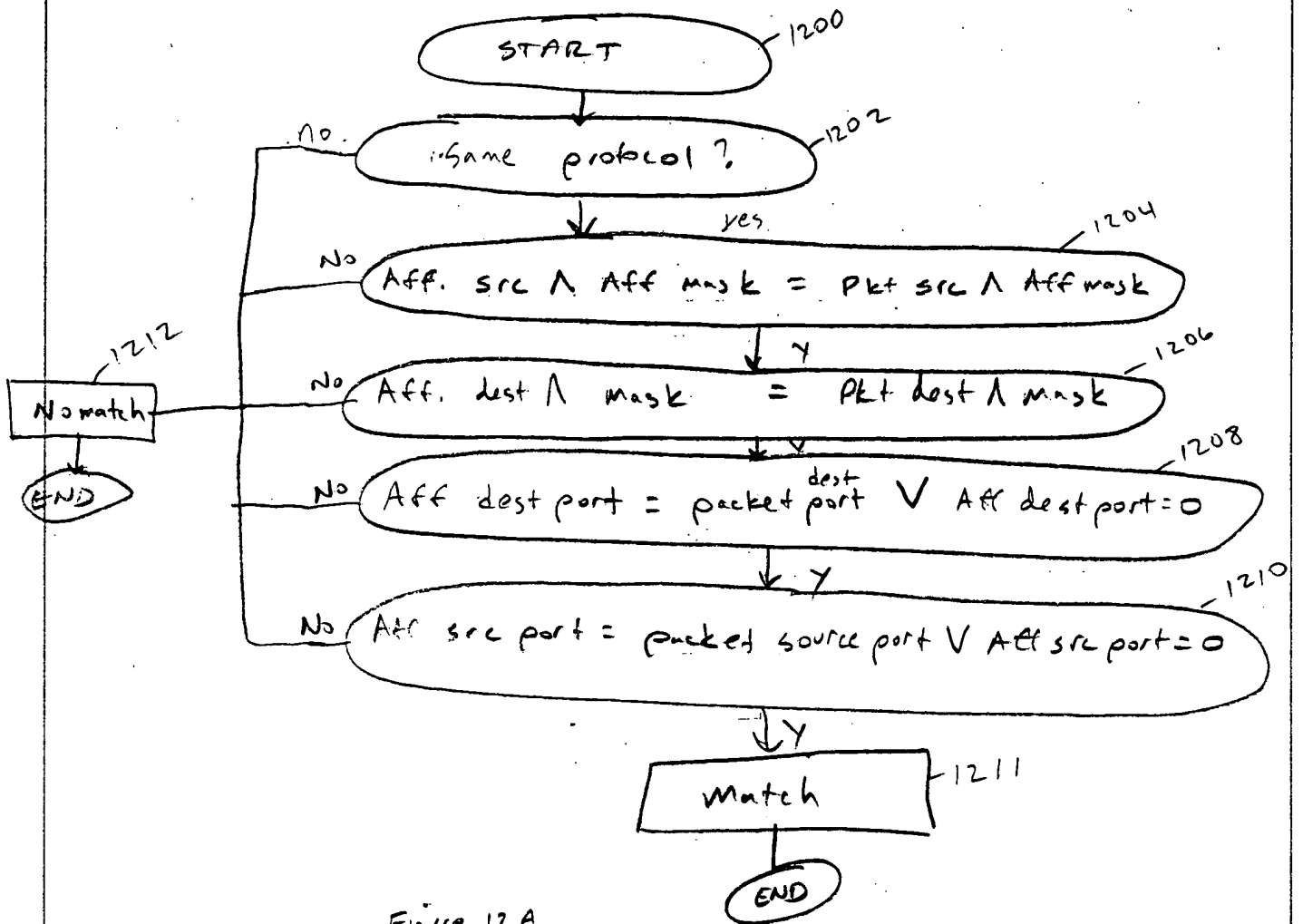


Figure 12A

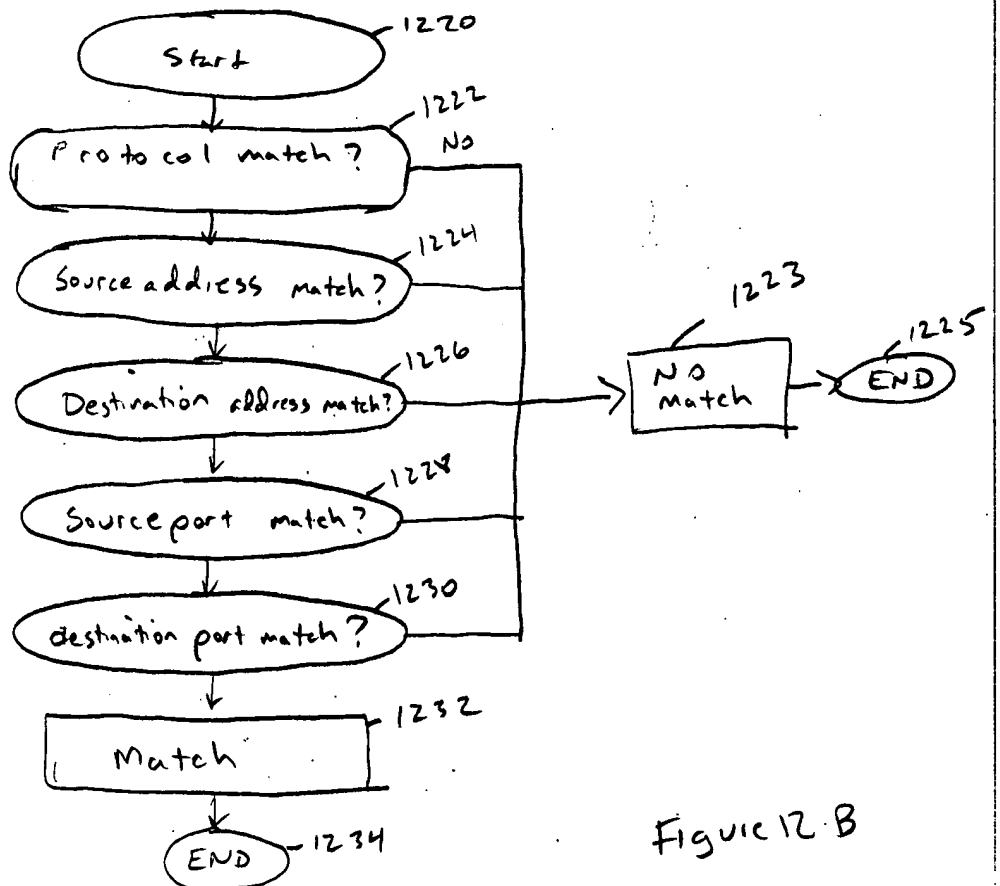


Figure 12B

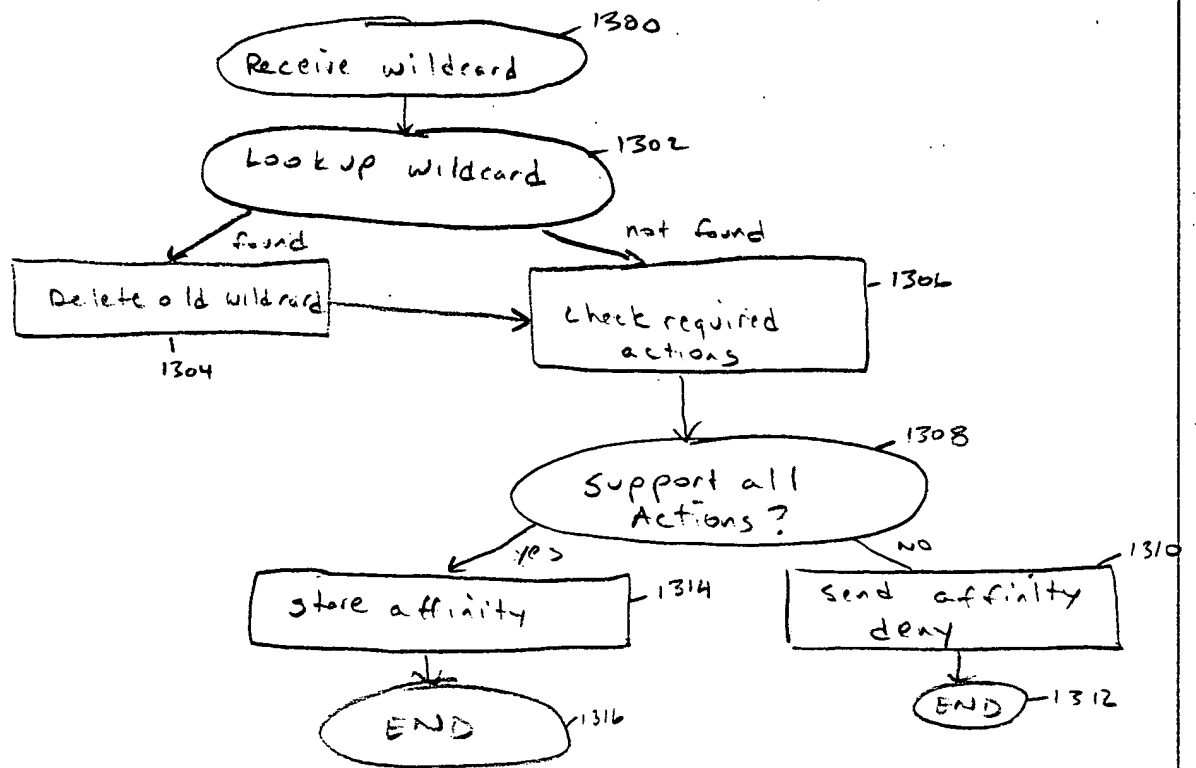


Figure 3.

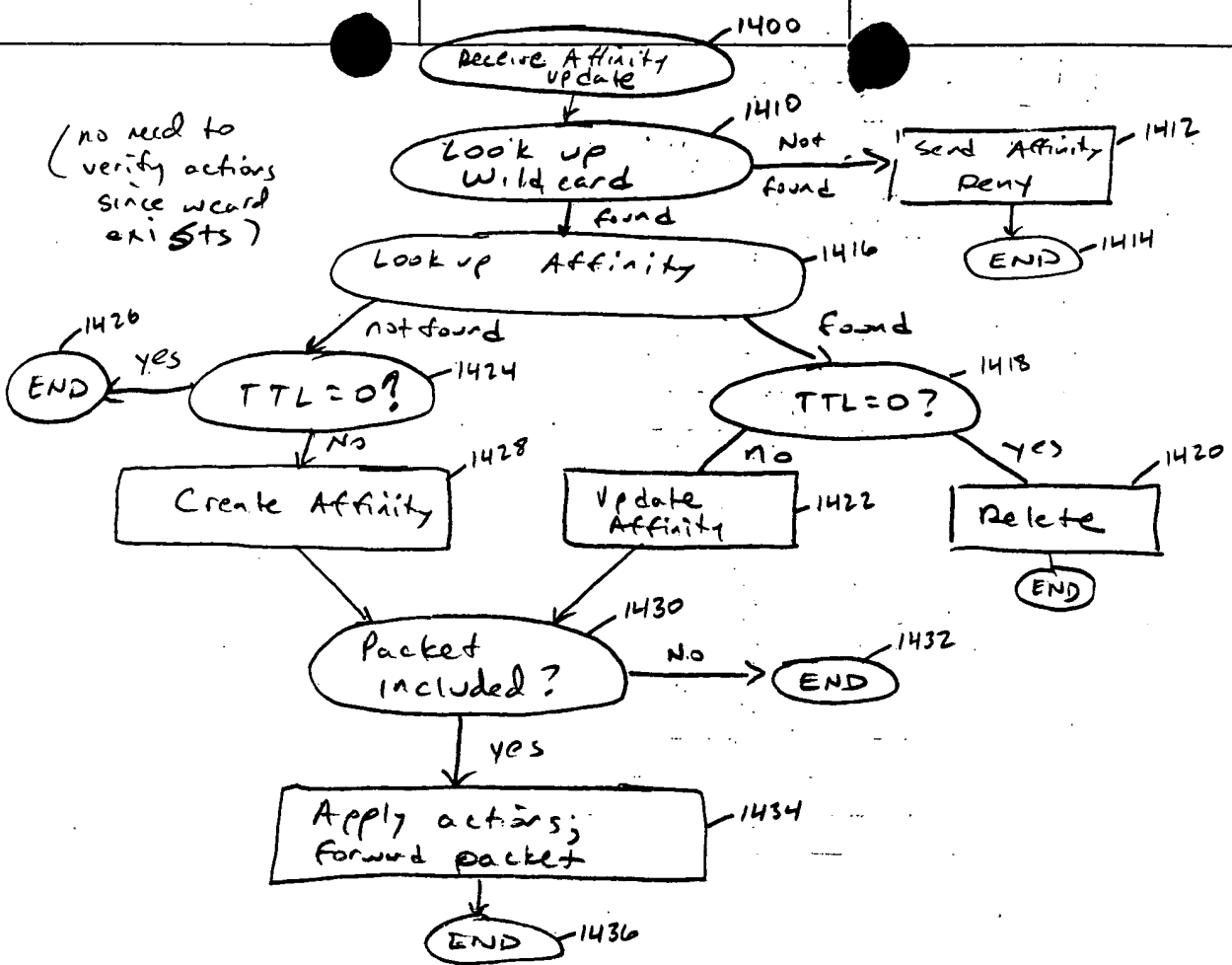


Figure 14

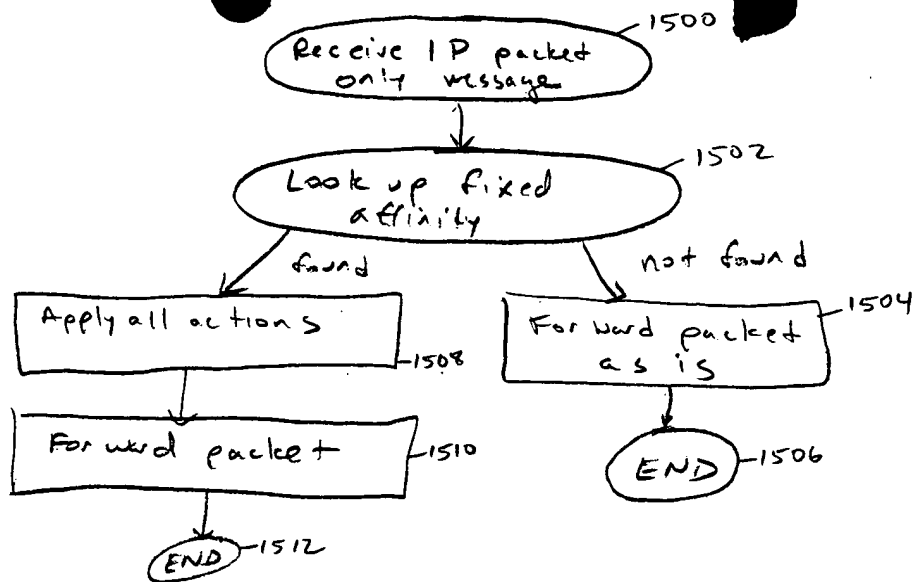


Figure 15

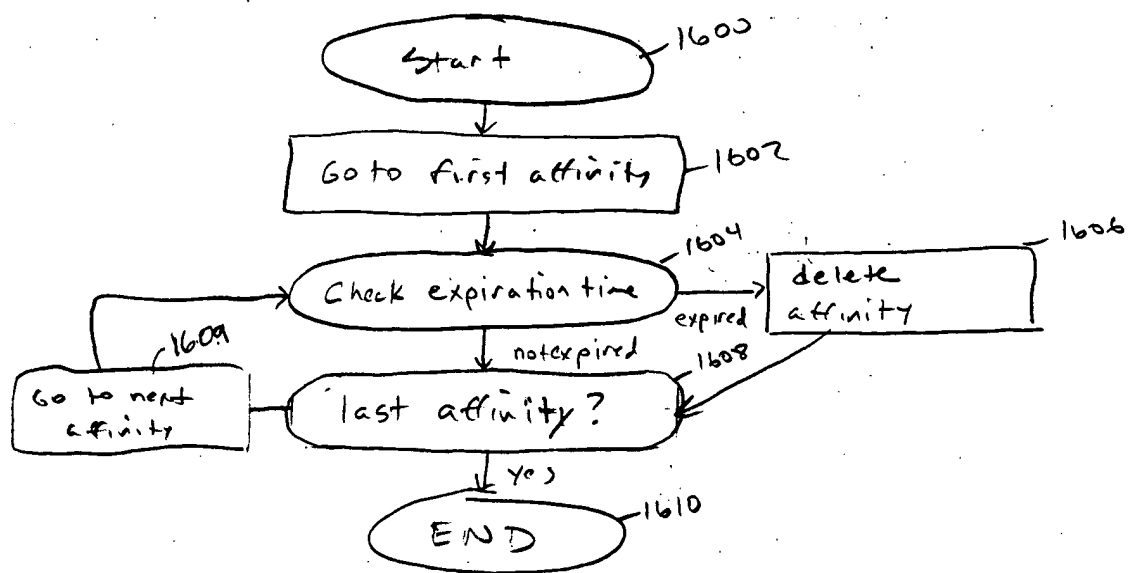


Figure 16